

Table 1.8 - Private Branch Exchange (PBX)

Product	Quantity	Cost per Unit	Total	Comments
Northern Telecom Meridian-1, Option 81	1	N/A	\$1,621,292.00	See notes 5 & 14
M2250 Console	1	N/A		
ACD telephones	300	N/A		
Headsets	300	N/A		
2008 Digital Telephones	2100	N/A		
Digital Voice Lines	2405	N/A		
Trunk Lines	608	N/A		
Digital Trunk Interfaces	25	N/A		
Central Office Trunks	8	N/A		
Octel Maxum with 72 ports	1	\$400,822.00	\$400,822.00	
ACD with 2 supervisor ports	1	N/A		
Rectifier	1	N/A		
			\$2,022,104.00	

Page Total \$2,022,104.00

Table 1.9 - Uninterruptable Power Supply (UPS)

Product	Quantity	Cost per Unit	Total	Comments
Central System				See notes 5 & 14
750 KVA Series XC Hybrid UPS	1	N/A	\$323,484.00	
600 KW motor generator	1	N/A		
Solid State Rectifier	1	N/A		
Solid State Inverter	1	N/A		
1 year warranty	1	N/A		
3 year service agreement	1	N/A		
			\$323,484.00	
Remote System				See notes 5 & 14
American Power Conversion AP900XL	10	\$1,044.00	\$10,440.00	
900 VA rated	10	N/A		
Surge Protection	10	N/A		
Shutdown Software	10	N/A		
25 minute battery	10	N/A		
2 year replacement warranty	10	N/A		
			\$10,440.00	
UPS Generator			\$295,000.00	See notes 5 & 14
Cummins KTA 38G1 (38 liter, 12cyl diesel)	1	N/A		
1000 KiloWatt standby unit	1	N/A		
Marathon synchronous generator	1	N/A		
1000 gal. skid mounted fuel tank	1	N/A		
Outside weather enclosure	1	N/A		
Internal enclosure controls	1	N/A		
Sound attenuation within enclosure	1	N/A		
Charger and Batteries	1	N/A		
Westinghouse 2000 amp transfer switch	1	N/A		
2000 amp mainline circuit breaker	1	N/A		
			\$295,000.00	
Page Total			\$628,924.00	

Table 1.10 - Internal Building Cable Plant

Product	Quantity	Cost per Unit	Total	Comments
Cable Plant				See note 14
48 strand multi-mode fiber	3000	\$16.80	\$50,400.00	
Category 5 plenum cable	750000	\$0.28	\$210,000.00	
1.25" plenum innerduct	3000	\$3.46	\$10,380.00	
19" open bay rack	12	\$186.00	\$2,232.00	
48 port fiber optic patch panel	11	\$725.00	\$7,975.00	
RJ45 duplex faceplates	2500	\$2.25	\$5,625.00	
RJ45 jacks, category 5	2500	\$4.75	\$11,875.00	
Surface mount boxes	2500	\$2.50	\$6,250.00	
6' Category 5 patch cords	5000	\$4.60	\$23,000.00	
24 port SNMP fiber hub	11	\$2,300.00	\$25,300.00	
24 port 10Base-T slave hubs	11	\$1,175.00	\$12,925.00	
AUI cables	22	\$10.50	\$231.00	
ST fiber connectors	100	\$7.75	\$775.00	
26ga 200 pair feed cable	8000	\$1.54	\$12,320.00	
ST/ST PVC fiber optic patch cords	100	\$36.00	\$3,600.00	
		\$4,476.43	\$382,888.00	

Page Total \$382,888.00

Table 1.11 - Administrative Support

Product	Quantity	Cost per Unit	Total	Comments
HR. Payroll, Benefits, etc.. Processor				See Notes 5 & 15
HP 9000 model T500	1	\$132,000.00	\$132,000.00	
90Mhz PA1700 CPU	5	\$36,000.00	\$180,000.00	
256Mb ECC Memory Board	7	\$26,624.00	\$186,368.00	
SCSI-2 Host Adapter	1	\$1,036.00	\$1,036.00	
HP-UX 9.04 Operating System	1	\$416.00	\$416.00	
HP-PB Expansion Module	1	\$8,400.00	\$8,400.00	
2Gb SCSI-2 Drives	5	\$9,224.00	\$46,120.00	
Model 8000R DAT Storage	1	\$2,880.00	\$2,880.00	
CDROM Expansion	1	\$736.00	\$736.00	
Miscellaneous Options	1	\$64,995.00	\$64,995.00	
		\$282,311.00	\$622,951.00	
Internal Help Desk Support				
HP 9000 model G40	1	\$13,600.00	\$13,600.00	
32Mb memory module	1	\$1,792.00	\$1,792.00	
2-8Gb DDS DAT	1	\$2,000.00	\$2,000.00	
HP-UX 9.0 16 user license	1	\$2,716.00	\$2,716.00	
SCSI-2 Host Adapter	1	\$1,036.00	\$1,036.00	
2Gb SCSI Disk Storage	2	\$2,560.00	\$5,120.00	
		\$23,704.00	\$26,264.00	
Administrative Software				
HR. Salary, Benefits, etc.	1	\$300,000.00	\$300,000.00	See Note 17
Help Desk Software	1	\$100,000.00	\$100,000.00	See Note 18
		\$400,000.00	\$400,000.00	

Page Total \$1,049,215.00

Table 1.12 - Voice/Data Circuits

Product	Quantity	Cost per Unit	Total	Comments
Non-Recurring T1 Installation	17	\$626 00	\$10 642 00	See Notes 5 & 14
Flat Rate Business Circuits (annual)	20	\$70 00	\$16 800 00	See Notes 5 & 14
T1 circuit costs (annual)	17	\$585 00	\$119 340 00	See Notes 5 & 14
			\$146,782.00	

Page Total \$146,782.00

**Enhanced Services Structural Separation
Appendix III
Construction/Lease Cost Estimates**

Appendix III contains the costs entailed with the establishment of a separate entity within the U S WEST family of companies for the purpose of offering enhanced services to the general public.

These figures represent costs that may be incurred during the construction of a new facility to house the enhanced services entity. It is assumed for planning purposes that the facility will need to support approximately 2500 individuals.

Exclusions:

1. Builders risk insurance.
2. Water, storm, and sanitary sewer tap and system development fees.
3. Public utility charges.
4. Public letters of credit.
5. Off-site street, traffic signalization and utility improvements.
6. Relocation of public utilities
7. Owner's contingencies.
8. Liquidated and consequential damages.
9. Testing and inspection costs.
10. Guard Service.
11. Parking fees.
12. Contaminated or unsuitable soils identification, testing, removal and replacement.
13. Hazardous materials inspection, testing, abatement, removal, disposal, and certification.
14. Allowance for unforeseen concealed conditions.
15. Ground water dewatering systems.
16. Utility meters and vaults.
17. Primary electrical service and transformers to the building.
18. Architectural and engineering fees, design responsibility and design liability.
19. Responsibility for compliance of construction documents with applicable codes, laws, statutes and regulations.
20. Rock excavation.
21. Building identification signs.
22. Concessions and vending equipment.
23. Interior landscaping.
24. Water fountains, sculptures, artwork or other special features.
25. Furnishings, fixtures and equipment (FF&E).
26. Private communications, MATV and fire department communications systems.
27. Setting of owner's equipment.

**Enhanced Services Structural Separation
Appendix III
Construction/Lease Cost Estimates**

The following is a brief description of each table:

Table 2.1 - Building Construction & Finishing

Contains cost estimates for the base building and primary support systems.

Table 2.2 - Building Automation and Physical Security

Contains cost estimates for automation and security systems within the new facility.

Table 2.3 - Facilities Lease (1st Year)

Contains cost estimates for facility lease, add-ins, and brokerage fees.

Table 2.1 - Building Construction and Finishing

Product	Cost	Cost per Square Foot	Comments
Site Development	\$1,692,306.00	\$2.84	See Notes 5 & 20
Excavation			
Water Taps			
Sanitary Connections			
	\$1,692,306.00	\$2.84	
Office Building Core and Shell			
Sitework	\$361,945.00	\$0.61	
Concrete	\$3,692,674.00	\$6.19	
Metals	\$5,754,280.00	\$9.65	
Carpentry	\$182,493.00	\$0.31	
Thermal/Moisture Protection	\$898,126.00	\$1.51	
Doors & Windows	\$1,446,932.00	\$2.43	
Finishes	\$1,317,436.00	\$2.21	
Specialties	\$213,185.00	\$0.36	
Furnishings	\$1,024.00		
Conveying Systems	\$840,000.00	\$1.41	
Mechanical	\$7,544,935.00	\$12.65	
Electrical	\$2,189,155.00	\$3.67	
	\$24,442,185.00	\$41.00	
Tenant Finish (Floors 1-10)			
Carpentry	\$908,350.00	\$1.52	
Thermal/Moisture Protection	\$73,650.00	\$0.12	
Doors & Windows	\$1,104,750.00	\$1.85	
Finishes	\$3,682,500.00	\$6.17	
Specialties	\$98,200.00	\$0.16	
Furnishings	\$122,750.00	\$0.21	
Mechanical	\$1,031,100.00	\$1.73	
Electrical	\$613,750.00	\$1.03	
	\$7,635,050.00	\$12.79	
Tenant Finish (Data Center)			
Carpentry	\$110,250.00	\$0.18	
Thermal/Moisture Protection	\$7,350.00	\$0.01	
Doors & Windows	\$95,550.00	\$0.16	
Finishes	\$318,500.00	\$0.53	
Leibert Chillers	\$100,000.00		
Specialties	\$588,000.00	\$0.99	
Equipment	\$112,700.00	\$0.19	
Mechanical	\$1,960,000.00	\$3.29	
Electrical	\$2,450,000.00	\$4.11	
	\$5,742,350.00	\$9.46	
Page Total	\$39,511,891.00	\$66.09	

Table 2.1 - Building Construction and Finishing (continued)

Product	Cost	Cost per Square Foot	Comments
Property Purchase	\$3,201,660.00		See Note 22
Audio/Visual Conference Equipment	\$111,246.00		See Notes 5 & 20
Data Graphics Projector	N/A		
Rear Screen Enclosure	N/A		
Multi-Standard Video Decoder	N/A		
Power Supply	N/A		
RGBS Loop Through Module	N/A		
W3 Breakout harness	N/A		
Signal Switcher	N/A		
Communications Cable	N/A		
RGBSync Input Modules	N/A		
Composite Video SVHS Input Modules	N/A		
Universal Computer Interface	N/A		
Mac Breakout Cable	N/A		
VGA Breakout Cable	N/A		
RGBS Cable	N/A		
Music System	N/A		
Miscellaneous Installation Materials	N/A		
	\$111,246.00		
General Conditions	\$1,773,535.00	\$2.97	See Notes 5 & 20
Building Permit & Plan Check Fees	\$222,629.00	\$0.37	See Notes 5 & 20
Performance & Payment Bond	\$199,739.00	\$0.33	See Notes 5 & 20
Contingency @ 5.00%	\$1,970,595.00	\$3.30	See Notes 5 & 20
	\$4,166,498.00	\$6.97	
Fee @ 3.00%	\$1,307,352.00	\$2.19	See Notes 5 & 20
Moving Costs	\$1,000,000.00		See Notes 19 & 21
Furniture including Conference Rooms	\$20,000,000.00		See Notes 19 & 21
Page Total	\$29,786,756.00	\$9.16	
Construction Total	\$69,298,647.00	\$76.25	

Table 2.2 - Building Automation and Physical Security

Product	Cost	Comments
Building Automation - Data Center		See Notes 5 & 20
Material/Devices	\$13,125.00	
Labor	\$7,575.00	
Subcontracting	\$22,200.00	
Freight, Warranty, Miscellaneous	\$1,050.00	
Use Taxes	\$788.00	
	\$44,738.00	
Building Automation - Tenant Space		See Notes 5 & 20
Material/Devices	\$21,875.00	
Labor	\$12,625.00	
Subcontracting	\$37,000.00	
Freight, Warranty, Miscellaneous	\$1,750.00	
Use Taxes	\$1,313.00	
	\$74,563.00	
Access Control	\$182,038.00	See Notes 5 & 20
Multiuser Software	N/A	
Input Card Readers	N/A	
Proximity Reader Interfaces	N/A	
Proximity Readers	N/A	
Power Supplies	N/A	
Door Strikes	N/A	
Infra-red Motion Detectors	N/A	
	\$182,038.00	
Page Total	\$301,339.00	

Table 2.3 - Facilities Lease

Product	Cost	Comments
Building Space Design	\$675,000.00	See Notes 19 & 21
Facilities Lease	\$13,500,000.00	See Notes 19 & 21
Brokerage Commission (3%)	\$405,000.00	See Notes 19 & 21
Build-out	\$2,025,000.00	See Notes 19 & 21
Moving Costs	\$1,000,000.00	See Notes 19 & 21
Furniture including Conference Rooms	\$20,000,000.00	See Notes 19 & 21
	\$37,605,000.00	
Audio/Visual Conference Equipment	\$111,246.00	See Notes 5 & 20
Data Graphics Projector	N/A	
Rear Screen Enclosure	N/A	
Multi-Standard Video Decoder	N/A	
Power Supply	N/A	
RGBS Loop Through Module	N/A	
W3 Breakout harness	N/A	
Signal Switcher	N/A	
Communications Cable	N/A	
RGBSync Input Modules	N/A	
Composite Video SVHS Input Modules	N/A	
Universal Computer Interface	N/A	
Mac Breakout Cable	N/A	
VGA Breakout Cable	N/A	
RGBS Cable	N/A	
Music System	N/A	
Miscellaneous Installation Materials	N/A	
	\$111,246.00	

Page Total

\$37,716,246.00

**Enhanced Services Structural Separation
Appendix IV
Reference Index**

- Note 1** Distribution of Macintosh and DOS based desktops is based upon industry studies indicating Macintosh platforms comprise 10% - 15% of the market.
- Note 2** Based on the Gartner Group/New Science Briefing on Office Automation Systems presented in Denver, Colorado on March 14, 1994:
- "Today and for the foreseeable future, BI (Business Intelligence) vendors will favor Windows Desktop ..."*
- Note 3** Groupware standard used by:
U S WEST Management Information Services
181 Inverness Drive West
Englewood, Colorado 80112
- Note 4** Hardware standard used by:
~~U S WEST Management Information Services~~
181 Inverness Drive West
Englewood, Colorado 80112
- Note 5** Sole Source Quote
- Note 6** Recommended configuration provided by Subject Matter Experts:
- T. David Rutherford
 Advanced Member of Technical Staff (LAN Engineer)
 External End User Support
 U S WEST Management Information Services
 181 Inverness Drive West
 Englewood, Colorado 80112
- Edward W. Brandorff
 Member of Technical Staff (LAN Engineer)
 External End User Support
 U S WEST Management Information Services
 181 Inverness Drive West
 Englewood, Colorado 80112
- Note 7** Recommended configuration provided by Subject Matter Expert:
- Michael Lamoreau
 Advanced Member of Technical Staff (Network Engineer)
 Connectivity Engineering
 U S WEST Management Information Services
 181 Inverness Drive West
 Englewood, Colorado 80112

**Enhanced Services Structural Separation
Appendix IV
Reference Index**

- Note 8** Recommended configuration provided by Subject Matter Expert:
Edward W. Brandorff
Member of Technical Staff (LAN Engineer)
External End User Support
U S WEST Management Information Services
181 Inverness Drive West
Englewood, Colorado 80112
- Note 9** Estimates provided by Subject Matter Expert:
Paul V. Mino
Senior Project Manager
External End User Support
U S WEST Management Information Services
181 Inverness Drive West
Englewood, Colorado 80112
-
- Note 10** Estimates provided by Subject Matter Expert:
Robert L. Dahlen
Senior Project Manager
Connectivity Engineering
U S WEST Management Information Services
181 Inverness Drive West
Englewood, Colorado 80112
- Note 11** 1% of installed base.
- Note 12** Cost includes unpacking, initial setup, hardware burn-in, loading/configuring software, installing at final location, and establishing connectivity.

Approximately 2 hours per desktop @ \$50.00 per hour.
Approximately 30 hours per server @ \$70.00 per hour.
- Note 13** Cost includes unpacking, initial setup, hardware burn-in, loading/configuring software, installing at final location, and establishing connectivity

Approximately 16 hours per device @ \$70.00 per hour.
- Note 14** Estimates provided by Subject Matter Expert:
Ron M. Trasky
Project Manager
Customer Services
U S WEST Management Information Services
181 Inverness Drive West
Englewood, Colorado 80112

**Enhanced Services Structural Separation
Appendix IV
Reference Index**

- Note 15** Estimates provided by Subject Matter Expert:
 Kathleen E. Soucek
 Senior Project Manager
 Customer Services
 U S WEST Management Information Services
 181 Inverness Drive West
 Englewood, Colorado 80112
- Note 16** Estimates provided by Subject Matter Expert:
 Robert O. Moore
 Senior Member of Technical Staff
 Advanced Business Products Development
 U S WEST Management Information Services
 181 Inverness Drive West
 Englewood, Colorado 80112
- Note 17** Estimates provided by Subject Matter Expert:
 Randy L. Floyd
 Senior Project Manager
 HR and Payroll Systems
 U S WEST Management Information Services
 181 Inverness Drive West
 Englewood, Colorado 80112
- Note 18** Estimates provided by Subject Matter Expert:
 Michael Kinder
 Advanced Member of Technical Staff
 Advanced Business Products Development
 U S WEST Management Information Services
 181 Inverness Drive West
 Englewood, Colorado 80112

**Enhanced Services Structural Separation
Appendix IV
Reference Index**

- Note 19** Estimates provided by Subject Matter Expert:
Dennis Fitzpatrick
Area Manager
Real Estate Planning
U S WEST Business Resources, Inc.
188 Inverness Drive West
Englewood, Colorado 80112

Gail M. Hesselbrock
Manager
Real Estate Planning
U S WEST Business Resource, Inc.
2800 Wayzata Blvd.
Minneapolis, Minnesota 55405
- Note 20** Estimates provided by Subject Matter Expert:
Craig Carter
Manager
Enterprise Support
U S WEST Management Information Services
181 Inverness Drive West
Englewood, Colorado 80112
- Note 21** Costs are calculated as follows:
 - Moving costs are estimated at \$400 per person.
 - Interior space design is estimated at \$1.25 per square foot.
 - Furniture costs are estimated at \$8,000 per person.
 - Build out costs are estimated at \$15 per square foot. Without having a particular site in mind, it is impossible to determine an exact cost. We have used 25% of the total square footage for planning purposes.
- Note 22** Cost is predicated on commercially zoned property at \$3.50 per square foot. 43,560 square feet per acre. Construction estimates are based on 21 acres for site development.
- Note 23** We estimate three (3) fully equipped Audio/Visual conference rooms to service the entire staff.

ATTACHMENT C

D S L

D I G I T A L S U B S C R I B E R L I N E

Get your place in the DSL line!

Big news: this afternoon, March 3, US West confirmed an extraordinary offer -- subscribers who sign up for DSL service within the first month of availability will have the equipment fee for the DSL modem waived. In other words, free gear! This is a very cool thing, it will make DSL incredibly affordable and we applaud US West for this. Sometimes, US West drives us nuts, but you've got to love them for this.

This offer is *only* available to people who sign a 1-year contract for DSL physical lines with US West.

Everyone who has already signed up on StarNet's pre-qualification form is eligible. In fact, it makes it even more important you act now to make sure your order is processed immediately. If you've already signed up, you don't have to do anything other than feel happy about the situation.

Shortly, US West will announce service availability dates for DSL service in Tucson. Obviously, we're pleased to see this happen -- after all, we have been working to bring high-speed Internet access to Tucson for nearly two years.

For those of you who aren't familiar with the technology, Digital Subscriber Line Service (DSL) is an "always on" way to access the internet at very high speeds.

How fast? The basic DSL offering now is nearly 10 times faster than a 28,800 modem! In other words a file that would take an hour to download from the Internet with a 28,800 modem, will take only 6 minutes with a basic DSL link. And that's the basic speed!

But DSL is a tough technology to deliver and there are many possible hitches in the US West telco network that need to be resolved to ensure you can actually *get* DSL service at your location.

Because we had an unhappy surprise from a telco last year when we first tried to launch DSL service, we're not comfortable formally announcing StarNet DSL until *after* US West has officially announced an availability date.

Based on US West's progress, we believe the service will begin customer installations in mid-April.

But! We have been working closely with a special unit that serves ISPs within US West to streamline the line qualification and ordering process.

And there is something we **can** do today -- begin taking requests for the necessary line qualifications, doing preliminary line checks and securing a spot in the installation queue for people.

This is important for two reasons:

- First, ordering DSL can be a painful process, and we want to make it as easy as possible.
- Second, once US West announces the availability of the service, orders will be taken on a first-come, first-served basis. To make sure that people who want StarNet DSL can get in immediately, we've created a special process to make sure our customers get into the order queue instantly.

If you use the StarNet DSL request form link below, we immediately will begin the necessary steps to ensure that your line is qualified and scheduled for installation as soon as humanly

possible. **At this point, we are handling *all* orders online only. StarNet customer support won't be able to answer questions or take orders for DSL over the phone for several weeks.**

At the moment, US West is still building the database that will be used to establish which lines can support DSL and which can't. We expect to see the qualification process begin in about three weeks. The *minute* the US West database is ready, we will transfer orders from our database into the US West qualification/order queue.

More importantly, there is necessary work that can be started today. Customers who are attached to Centrex services have a special step that must be taken. If one waits until US West's announcement, that step can add weeks of needless delays to the process. Thus, we can begin *immediately* to check on the Centrex status of lines and deal with problems now.

Once, US West actually begins line qualification and sets tentative delivery dates, we'll contact people who sign up and confirm the final order. And, assuming your line qualifies, we'll have your reserved delivery date in hand!

And throughout the process, we'll troubleshoot problems with US West for you, so you won't be alone in a faceless telco process.

In the unhappy event that your lines don't qualify for DSL service, don't despair. We are continuing to work on affordable high-speed net access plans that will provide alternatives to people who can't get DSL. We're determined to bring you the kind of access you want and need.

StarNet DSL offerings, when we can "officially" announce them (in other words after US West formalizes its delivery announcement) are slated to be highly affordable – they'll start at \$60 a month for 256K bi-directional service.* And that figure includes the DSL line charges.

There are important catches to be aware of when considering DSL service – many factors can affect whether or not your lines qualify. Distance is a big one, as well as other line conditions.

And, please be aware that when US West talks about a \$40 DSL circuit, it's only that: a physical circuit. You still need an Internet Service Provider to get you out on the net, just like you need one today over dial-up lines.

During the Phoenix roll-out of DSL service, many people felt misled when they called for their "\$40" DSL connection to the net only to discover that the DSL circuit itself only got you halfway there...

That's why we're here to dispell a great deal of the confusion and misconceptions and ensure that the public knows what it's getting and gets what it wants.

Follow these links for more information

[Check out our DSL FAQ for lots more information](#)

[Get yourself in the pre-qualification and installation line now](#)

A note on the pre-qualification form.

We will need to contact you to confirm your order once US West actually reaches the point of setting installation dates.

Getting your "pre-order" done now allows us to begin work early on dealing with issues like Centrex-related problems and get you in the queue for final line qualification/delivery early.

Indeed, because US West won't take public orders for weeks, you'll be in the pipeline for service before

people who wait to call US West itself.

If you're serious about DSL, we *urge* you to sign up for StarNet DSL pre-qualification today to avoid the delays that will come for people who wait until the normal US West process begins.

***We reserve the right to change StarNet DSL pricing and terms if US West comes up with a last-minute change of plans. However, we've based our pricing on ACC approved tariffs and the prices US West used in the Phoenix roll-out of DSL. In other words, we think there's zero reason to believe anything will change. We're not trying to get hinky with you, it's just we've learned the hard way that telcos sometimes throw out last-minute curve balls.**

ADSL

ISDN

T1

ADSL

Single-User

[Home](#)[Products](#)[Support](#)[Feedback](#)[Community](#)[News](#)[About Us](#)[Site Map](#)

March 20, 1998 ADSL update

We are gearing up to support US West's ADSL service rollout expected in May. Our ADSL service will support full-time Internet connections at speeds of 256k, 512k, 768k, or 1Mbps for both small and large networks. Prices are still being finalized, but should fall into the \$200-\$500/month range. We'll update the information and the chart below Real Soon Now and make an announcement in the next issue of the BUZZ. Although availability will be limited for a while, this service should prove to be a great way to get more Internet bandwidth at a great price. See our [ADSL news and resources page](#) for links on ADSL happenings.

612.291.1890
info@gofast.net

When you need industrial-strength Internet access for your network, our ADSL services deliver - with flexible high-speed connections that will grow with you.

ADSL is Asymmetrical Digital Subscriber Line -- up to 1.2 MBps downstream (toward you) and 640 KBps upstream (away from you) depending on the kind of modems are used and the capability/quality/length of the copper pairs between your location and the telco central office.

If you are located in the downtown St. Paul area, we can offer you ADSL Internet access as an alternative for dedicated high-speed access to the Internet. ADSL competes directly with T1 frame relay in terms of performance. A major advantage: it only takes a few weeks for US West to install the line, instead of the long delays and high installation fees associated with T1 data circuits.

Speed

Using the newest technology available, **our** ADSL services provide the bandwidth you need to put your entire network on the Net - with data rates up to 1.2Mbps.

Security

Worried about protecting your network? Our proven firewall solutions **provide** full access control between your network and the Internet - restricting unwanted access to internal resources.

Service

We **provide** everything your business needs to **get** on the Internet - network design, equipment sales, on-site installation, email services, and domain **name** services - with the knowledge and experience to do it right.

Reliability

With redundant fiber optic facilities, multiple paths to the Internet, and 24 hour technical support, we make sure you get the service you need - when you need it.

Performance


Just because you have a high-speed connection to the Internet doesn't mean that you're going fast. That's where our ATM DS3 Internet backbone steps in - making sure that there's nothing in the way to slow you down.

ADSL Service

- **Supports multiple workstations or servers, including on-site web or email servers**
- **Adjustable rates let you grow as needed**
- **24 hour monitoring & technical support.**

CERTIFICATE OF SERVICE

I, Rebecca Ward, do hereby certify that on this 23rd day of April, 1998, I have caused a copy of the foregoing **REPLY COMMENTS OF U S WEST, INC.** to be served, via first-class United States Mail, postage pre-paid, upon the persons listed on the attached service list.


Rebecca Ward

*Served via hand delivery

(CC95-20b-COS)

***William E. Kennard**
Federal Communications Commission
Room 814
1919 M Street, N.W.
Washington, DC 20554

***Gloria Tristani**
Federal Communications Commission
Room 826
1919 M Street, N.W.
Washington, DC 20554

***Michael K. Powell**
Federal Communications Commission
Room 844
1919 M Street, N.W.
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***Harold Furchtgott-Roth**
Federal Communications Commission
Room 802
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